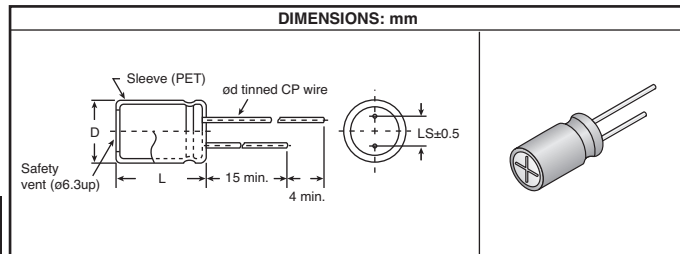


NICHICON Aluminum Electrolytic Capacitors **nichicon**

nichicon UVZ SERIES 105°C CAPACITORS (LEAD FREE)



For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	Nichicon Part No.	Value (µF)	Case Size D x L (mm) Max.	LS (mm)	Price Each			
					1	25	100	500
6.3 Volt								
647-UVZ0J101MDD	UVZ0J101MDD	100	5 x 11	2.0	.14	.13	.072	.049
647-UVZ0J221MDD	UVZ0J221MDD	220	5 x 11	2.0	.14	.129	.072	.049
647-UVZ0J331MED	UVZ0J331MED	330	6.3 x 11	2.5	.15	.14	.085	.06
647-UVZ0J471MED	UVZ0J471MED	470	6.3 x 11	2.5	.19	.18	.112	.079
647-UVZ0J102MPD	UVZ0J102MPD	1000	8 x 11.5	3.5	.15	.13	.113	.087
647-UVZ0J22MPD	UVZ0J22MPD	2200	10 x 20	5.0	.46	.43	.307	.228
647-UVZ0J332MPD	UVZ0J332MPD	3300	10 x 20	5.0	.46	.43	.307	.228
647-UVZ0J472MHD	UVZ0J472MHD	4700	12.5 x 20	5.0	.60	.52	.417	.33
647-UVZ0J682MHD	UVZ0J682MHD	6800	12.5 x 25	5.0	.76	.712	.576	.435
647-UVZ0J103MHD	UVZ0J103MHD	10000	16 x 25	7.5	1.16	1.06	.875	.661
647-UVZ0J223MHD	UVZ0J223MHD	22000	18 x 40	7.5	1.65	1.64	1.26	.964
10 Volt								
647-UVZ1A101MDD	UVZ1A101MDD	100	5 x 11	2.0	.14	.13	.072	.049
647-UVZ1A221MED	UVZ1A221MED	220	6.3 x 11	2.5	.15	.135	.085	.06
647-UVZ1A331MED	UVZ1A331MED	330	6.3 x 11	2.5	.17	.15	.112	.079
647-UVZ1A471MED	UVZ1A471MED	470	6.3 x 11	2.5	.19	.169	.112	.079
647-UVZ1A102MPD	UVZ1A102MPD	1000	10 x 12.5	5.0	.31	.302	.205	.152
647-UVZ1A222MPD	UVZ1A222MPD	2200	10 x 20	5.0	.52	.48	.345	.256
647-UVZ1A332MHD	UVZ1A332MHD	3300	12.5 x 20	5.0	.60	.52	.417	.33
647-UVZ1A472MHD	UVZ1A472MHD	4700	12.5 x 25	5.0	.76	.712	.576	.435
647-UVZ1A682MHD	UVZ1A682MHD	6800	16 x 25	7.5	1.17	1.06	.882	.666
647-UVZ1A103MHD	UVZ1A103MHD	10000	16 x 35.5	7.5	1.40	1.39	1.07	.819
647-UVZ1A153MHD	UVZ1A153MHD	15000	18 x 35.5	7.5	1.49	1.48	1.14	.872
16 Volt								
647-UVZ1C470MDD	UVZ1C470MDD	47	5 x 11	2.0	.14	.13	.072	.049
647-UVZ1C101MDD	UVZ1C101MDD	100	5 x 11	2.0	.14	.10	.072	.049
647-UVZ1C221MED	UVZ1C221MED	220	6.3 x 11	2.5	.19	.184	.112	.079
647-UVZ1C331MPD	UVZ1C331MPD	330	8 x 11.5	3.5	.20	.18	.115	.081
647-UVZ1C471MPD	UVZ1C471MPD	470	8 x 11.5	3.5	.24	.216	.147	.11
647-UVZ1C102MPD	UVZ1C102MPD	1000	10 x 16	5.0	.37	.31	.248	.184
647-UVZ1C222MHD	UVZ1C222MHD	2200	12.5 x 20	5.0	.60	.52	.417	.33
647-UVZ1C332MHD	UVZ1C332MHD	3300	12.5 x 25	5.0	.73	.62	.527	.408
647-UVZ1C472MHD	UVZ1C472MHD	4700	16 x 25	7.5	1.20	1.03	.904	.683
647-UVZ1C682MHD	UVZ1C682MHD	6800	16 x 35.5	7.5	1.69	1.65	1.29	.985
647-UVZ1C103MHD	UVZ1C103MHD	10000	18 x 35.5	7.5	1.55	1.53	1.18	.904
25 Volt								
647-UVZ1E470MDD	UVZ1E470MDD	47	5 x 11	2.0	.10	.09	.07	.049
647-UVZ1E101MED	UVZ1E101MED	100	6.3 x 11	2.5	.12	.11	.085	.06
647-UVZ1E221MPD	UVZ1E221MPD	220	8 x 11.5	3.5	.19	.176	.112	.079
647-UVZ1E331MPD	UVZ1E331MPD	330	10 x 12.5	5.0	.24	.23	.147	.11
647-UVZ1E471MPD	UVZ1E471MPD	470	10 x 12.5	5.0	.24	.21	.18	.14
647-UVZ1E102MPD	UVZ1E102MPD	1000	10 x 20	5.0	.40	.34	.291	.216
647-UVZ1E222MHD	UVZ1E222MHD	2200	12.5 x 25	5.0	.73	.62	.527	.408
647-UVZ1E332MHD	UVZ1E332MHD	3300	16 x 25	7.5	1.05	.91	.793	.60
647-UVZ1E472MHD	UVZ1E472MHD	4700	16 x 31.5	7.5	1.40	1.31	1.07	.819
647-UVZ1E682MHD	UVZ1E682MHD	6800	18 x 35.5	7.5	1.66	1.56	1.26	.966
35 Volt								
647-UVZ1V330MDD	UVZ1V330MDD	33	5 x 11	2.0	.14	.131	.072	.049
647-UVZ1V470MDD	UVZ1V470MDD	47	5 x 11	2.0	.10	.09	.07	.049
647-UVZ1V101MED	UVZ1V101MED	100	6.3 x 11	2.5	.19	.174	.112	.079
647-UVZ1V221MPD	UVZ1V221MPD	220	10 x 12.5	5.0	.24	.19	.147	.11
647-UVZ1V331MPD	UVZ1V331MPD	330	10 x 12.5	5.0	.31	.27	.205	.152
647-UVZ1V471MPD	UVZ1V471MPD	470	10 x 16	5.0	.39	.38	.256	.19
647-UVZ1V102MHD	UVZ1V102MHD	1000	12.5 x 20	5.0	.56	.55	.386	.305
647-UVZ1V222MHD	UVZ1V222MHD	2200	16 x 25	7.5	.95	.932	.715	.54
647-UVZ1V332MHD	UVZ1V332MHD	3300	16 x 35.5	7.5	1.40	1.35	1.07	.819
647-UVZ1V472MHD	UVZ1V472MHD	4700	18 x 35.5	7.5	1.50	1.36	1.14	.873
50 Volt								
647-UVZ1H0R1MDD	UVZ1H0R1MDD	0.1	5 x 11	2.0	.12	.10	.072	.049
647-UVZ1HR22MDD	UVZ1HR22MDD	0.22	5 x 11	2.0	.12	.10	.072	.049
647-UVZ1HR33MDD	UVZ1HR33MDD	0.33	5 x 11	2.0	.09	.08	.07	.049
647-UVZ1HR47MDD	UVZ1HR47MDD	0.47	5 x 11	2.0	.12	.10	.072	.049
647-UVZ1H010MDD	UVZ1H010MDD	1.0	5 x 11	2.0	.10	.09	.07	.049
647-UVZ1H2R2MDD	UVZ1H2R2MDD	2.2	5 x 11	2.0	.10	.09	.07	.049
647-UVZ1H3R3MDD	UVZ1H3R3MDD	3.3	5 x 11	2.0	.12	.10	.072	.049
647-UVZ1H4R7MDD	UVZ1H4R7MDD	4.7	5 x 11	2.0	.10	.09	.07	.049
647-UVZ1H100MDD	UVZ1H100MDD	10	5 x 11	2.0	.14	.13	.072	.049
647-UVZ1H220MDD	UVZ1H220MDD	22	5 x 11	2.0	.14	.10	.072	.049
647-UVZ1H330MDD	UVZ1H330MDD	33	5 x 11	2.0	.14	.127	.072	.049
647-UVZ1H470MDD	UVZ1H470MDD	47	6.3 x 11	2.5	.09	.08	.07	.055
647-UVZ1H101MPD	UVZ1H101MPD	100	8 x 11.5	3.5	.19	.174	.112	.079

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Specifications:

- Operating temperature range: -55°C ~ +105°C (6.3 ~ 100V), -40°C ~ +105°C (60 ~ 400V), -25°C ~ +105°C (450V)
- Voltage range: 6.3 ~ 450V
- Capacitance range: 0.1 ~ 33000µF
- Capacitance tolerance: ±20% at 120Hz, 20°C
- Small case sizes as VR series, but operating over wide temperature range of -55°C ~ 105°C

Application note:

- A higher voltage capacitor may be used in a lower voltage application

Endurance:

- 1000 hours @ 105°C

Leakage Current:

6.3V ~ 100V	160V ~ 450V
After 1 minute application of rated voltage, leakage current is not more than 0.03CV or 4 (µA), whichever is greater	After 1 minute application of rated voltage, CV ≤ 1000: I = 0.1CV + 40µA or less
After 2 minutes application of rated voltage, leakage current is not more than 0.01CV or 3 (µA), whichever is greater	After 1 minutes application of rated voltage, CV > 1000: I = 0.04CV + 100µA or less



RoHS Compliant

LEAD-FREE

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	Nichicon Part No.	Value (µF)	Case Size D x L (mm) Max.	LS (mm)	Price Each			
					1	25	100	500
50 Volt (cont.)								
647-UVZ1H221MPD	UVZ1H221MPD	220	10 x 12.5	5.0	.39	.302	.205	.152
647-UVZ1H331MPD	UVZ1H331MPD	330	10 x 16	5.0	.39	.325	.261	.194
647-UVZ1H471MHD	UVZ1H471MHD	470	12.5 x 20	5.0	.51	.485	.355	.281
647-UVZ1H102MHD	UVZ1H102MHD	1000	12.5 x 25	5.0	.74	.67	.53	.41
647-UVZ1H222MHD	UVZ1H222MHD	2200	16 x 35.5	7.5	1.43	1.24	1.07	.814
647-UVZ1H332MHD	UVZ1H332MHD	3300	18 x 35.5	7.5	1.69	1.45	1.29	.984
63 Volt								
647-UVZ1J100MDD	UVZ1J100MDD	10	5 x 11	2.0	.14	.13	.072	.049
647-UVZ1J20MDD	UVZ1J20MDD	22	5 x 11	2.0	.14	.127	.072	.049
647-UVZ1J30MED	UVZ1J30MED	33	6.3 x 11	2.5	.15	.14	.085	.06
647-UVZ1J470MED	UVZ1J470MED	47	6.3 x 11	2.5	.19	.174	.112	.079
647-UVZ1J101MPD	UVZ1J101MPD	100	10 x 12.5	5.0	.24	.19	.147	.11
647-UVZ1J221MPD	UVZ1J221MPD	220	10 x 16	5.0	.39	.354	.261	.194
647-UVZ1J331MPD	UVZ1J331MPD	330	10 x 20	5.0	.50	.486	.343	.271
647-UVZ1J471MHD	UVZ1J471MHD	470	12.5 x 20	5.0	.60	.52	.417	.33
647-UVZ1J102MHD	UVZ1J102MHD	1000	16 x 25	7.5	1.00	.956	.751	.567
647-UVZ1J222MHD	UVZ1J222MHD	2200	18 x 35.5	7.5	1.43	1.24	1.07	.814
100 Volt								
647-UVZ2A47MDD	UVZ2A47MDD	0.47	5 x 11	2.0	.09	.08	.07	.049
647-UVZ2A010MDD	UVZ2A010MDD	1.0	5 x 11	2.0	.12	.10	.072	.049
647-UVZ2A2R2MDD	UVZ2A2R2MDD	2.2	5 x 11	2.0	.12	.10	.072	.049
647-UVZ2A3R3MDD	UVZ2A3R3MDD	3.3	5 x 11	2.0	.12	.10	.072	.049
647-UVZ2A4R7MDD	UVZ2A4R7MDD	4.7	5 x 11	2.0	.14	.13	.072	.049
647-UVZ2A100MED	UVZ2A100MED	10	6.3 x 11	2.5	.15	.139	.085	.06
647-UVZ2A20MED	UVZ2A20MED	22	6.3 x 11	2.5	.19	.16	.112	.079
647-UVZ2A30MPD	UVZ2A30MPD	33	8 x 11.5	3.5	.22	.20	.147	.11
647-UVZ2A470MPD	UVZ2A470MPD	47	10 x 12.5	5.0	.32	.28	.192	.144
647-UVZ2A101MPD	UVZ2A101MPD	100	10 x 20	5.0	.48	.42	.318	.236
647-UVZ2A211MHD	UVZ2A211MHD	220	12.5 x 25	5.0	.68	.65	.492	.381
647-UVZ2A311MHD	UVZ2A311MHD	330	12.5 x 25	5.0	.76	.68	.546	.423
647-UVZ2A471MHD	UVZ2A471MHD	470	16 x 25	7.5	1.00	.956	.751	.567
647-UVZ2A102MHD	UVZ2A102MHD	1000	18 x 40	7.5	1.50	1.36	1.14	.873
160 Volt								
647-UVZ2C010MED	UVZ2C010MED	1.0	6.3 x 11	2.5	.15	.13	.11	.084
647-UVZ2C2R2MED	UVZ2C2R2MED	2.2	6.3 x 11	2.5	.14	.12	.11	.09
647-UVZ2C3R3MED	UVZ2C3R3MED	3.3	6.3 x 11	2.5	.17	.15	.14	.112
647-UVZ2C4R7MED	UVZ2C4R7MED	4.7	6.3 x 11	2.5	.18	.16	.14	.117
647-UVZ2C100MPD	UVZ2C100MPD	10	8 x 11.5	3.5	.28	.24	.192	.144
647-UVZ2C20MPD	UVZ2C20MPD	22	10 x 16	5.0	.39	.35	.261	.194
647-UVZ2C30MPD	UVZ2C30MPD	33	10 x 20	5.0	.50	.44	.334	.248
647-UVZ2C470MHD	UVZ2C470MHD	47	12.5 x 20	5.0	.49	.462	.338	.267
647-UVZ2C101MHD	UVZ2C101MHD	100	12.5 x 25	5.0	.71	.655	.511	.396
647-UVZ2C221MHD	UVZ2C221MHD	220	16 x 35.5	7.5	1.29	1.15	.972	.734
647-UVZ2C331MHD	UVZ2C331MHD	330	18 x 40	7.5	1.48	1.39	1.11	.839
200 Volt								
647-UVZ2D010MED	UVZ2D010MED	1.0	6.3 x 11	2.5	.14	.12	.11	.088
647-UVZ2D2R2MED	UVZ2D2R2MED	2.2	6.3 x 11	2.5	.16	.14	.12	.101
647-UVZ2D3R3MED	UVZ2D3R3MED	3.3	6.3 x 11	3.5	.17	.15	.13	.106
647-UVZ2D4R7MPD								